

**CCR Seventh Annual Fellows and Young Investigators Retreat**  
February 27 ~ March 1, 2007, Clarion Fontainebleau Hotel in Ocean City, MD

**PROGRAM**

**Tuesday, February 27, 2007**

- 2:00 p.m.      **Registration, Resume Critique, and Mentored Dinner Sign-up** (*Grand Ballroom – First Floor Foyer*)  
  
                 **Poster Session I Setup** (*Crystal Ballroom Hall II*)
- 3:30 p.m.      **Plenary Session I** (*Crystal Ballroom Hall I*)  
  
                 **Opening Remarks and CCR-FYI Overview**  
                 *Arti Santhanam, Ph.D., Chair, CCR-FYI Steering Committee*  
  
                 **Update on the National Postdoctoral Association (NPA)**  
                 *Alyson Reed, Ph.D., National Postdoctoral Association*  
  
                 **FelCom Overview**  
                 *Heidi Erickson, Ph.D., National Cancer Institute*
- 4:15 p.m.      **NCI's Administrative Resource Centers**  
                 *Patrick Miller, ARC Manager, CCR, NCI*  
                 *Moderators: Girish Patel, M.B.B.S, M.R.C.P., M.D.*
- 4:30 p.m.      **CCR Office of the Director Address/Open Forum**  
                 *Robert Wiltrout, Ph.D., Director, CCR, NCI*  
                 *Lee Helman, M.D., Ph.D., Acting Scientific Director for Clinical Research, CCR, NCI*  
                 *Moderators: Arti Santhanam, Ph.D., and Veronica Hall, Ph.D.*
- 5:15 p.m.      **Postdoctoral Keynote Speaker: "Lessons Learned from Molecular Profiling of Hepatocellular Carcinoma"**  
                 *Anuradha Budhu, Ph.D., Laboratory of Human Carcinogenesis, CCR, NCI*  
                 *Moderators: Elena Ambrosino, Ph.D., and Kwang Suh, Ph.D.*
- 6:15 p.m.      **Mentored and General Dinner** (*Grand Ballroom – First Floor*)
- 7:30 p.m.      **Keynote Speaker I: "Cancer Stem Cells: A New Paradigm in Cancer Research"**  
                 *Max Wicha, M.D., University of Michigan Comprehensive Cancer Center*  
                 *Moderators: Veronica Hall, Ph.D., and Stephen Maher, Ph.D.*
- 8:30 p.m.      **Poster Session I** (*Crystal Ballroom II*)  
                 **Molecular and Cell Biology I**  
                 **Pharmacology, Chemistry, and Virology**  
                 **Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention**  
                 **Signal Transduction and Gene Transcription**  
                 **Genomics, Proteomics, and Bioinformatics**  
  
                 **Informal Mixer** (*Conference Rooms 1-3*)  
                 **Mentored Meal Sign-up** (*Registration Desk*)

**Wednesday, February 28, 2007**

7:00 a.m. **Continental Breakfast** (*Crystal Ballroom Foyer*)  
**Registration Open**

8:00 a.m. **Plenary Session II** (*Crystal Ballroom I*)

**Keynote Speaker II: “Conversations between Tissues and T Cells”**

*Polly Matzinger, Ph.D., Laboratory of Cellular and Molecular Immunology, NIAID*

*Moderators: Martin Guimond, Ph.D., and Swati Choksi, Ph.D.*

9:00 a.m. **Break**

9:15 a.m. **Concurrent Workshops I**

**1. How to Succeed in Science** (*Crystal Ballroom I*)

**“Science Careers at the National Cancer Institute”**

*Nancy Colburn, Ph.D., Laboratory of Cancer Prevention, CCR, NCI*

**“How to Succeed at an Academic Institution”**

*Robert A. Schlegel, Ph.D., Pennsylvania State University*

*Moderators: Gillian Whittaker, Ph.D., and Jordan Irvin, Ph.D.*

**2. Science Careers for the 21<sup>st</sup> Century** (*Conference Rooms 4-6*)

*Howard Gadlin, Ph.D., Center for Cooperative Resolution, NIH Office of the Ombudsman*

*Nicole Mahoney, Ph.D., Office of Technology Development, NIAID*

*Rosanne Hurwitz, J.D., M.P.H., Ethics Office, NIH*

*R. Alan Mufson, Ph.D., Cancer Immunology/Hematology Branch, DCB, NCI*

*Moderators: Veronica Hall, Ph.D., and Stephen Maher, Ph.D.*

10:30 a.m. **Concurrent Oral Presentations I**

**1. Pharmacology, Virology, and Chemistry** (*Conference Room 1*)

*Moderators: Elena Ambrosino, Ph.D., and M. Margaret Pratt, Ph.D.*

*Anna Maria Calcagno, Laboratory of Cell Biology*

ABCG2: A Molecular Target During Early Stages of Multidrug Resistance Development in Breast Cancer Cells

*Himanshu Garg, Nanobiology Program*

Mutational Analysis of HIV-1 gp41-Mediated Apoptosis and Its Correlation with Fusion/Hemifusion

*Sahar Javanmard, Laboratory of Comparative Carcinogenesis*

Synthesis of Potential Tumor-Specific Chemotherapy Adjuvants: O<sup>6</sup>-Benzyl-2'-Deoxyguanosine and O<sup>6</sup>-[(4-hydroxymethyl)benzyl]guanine Folic Acid Conjugates

*Vladimir Majerciak, HIV and AIDS Malignancy Branch*

KSHV ORF57 Functions as a Splicing Factor in Promoting Viral RNA Splicing *In Vivo*

*Andrew Jobson, Laboratory of Molecular Pharmacology*

Identification and Characterization of Putative Chk2 Inhibitors

**2. Carcinogenesis, Cancer Models, Epidemiology and Cancer Prevention**

(*Conference Rooms 4-6*)

*Moderators: Tamaro Hudson, Ph.D., M.P.H., and Haiqing Li, M.D., Ph.D.*

**Jennifer Shen, Surgery Branch**

Pancreatic Inactivation of Multiple Endocrine Neoplasia Type 1 (*Men1*) Gene Leads to Multistage Tumorigenesis and Vascular Alterations

**Sergey Kuznetsov, Mouse Cancer Genetics Program**

Functional Analysis of BRCA2 Mutations Using and ES Cell-Based System

**Padmakumar Velayuthan, Mouse Cancer Genetics Program**

Is p53 a Master Repressor of Cell Cycle?

**Dina Raafat, Laboratory of Cancer Biology and Genetics**

Nitric Oxide-Regulated Nuclear Translocation of the Intracellular Chloride Channel CLIC4

**Jian Huang, Laboratory of Molecular Immunoregulation**

Transactivation of the Epidermal Growth Factor by Formylpeptide Receptor FPR in Glioblastoma Cells

### **3. Molecular and Cell Biology I (Conference Room I)**

*Moderators: Michael Rosu-Myles, Ph.D., and Veronica Hall, Ph.D.*

**Luciann Cuenca, Laboratory of Cell Biology**

The Catalytic Cycle of ATP Hydrolysis by P-glycoprotein (ABCB1): Role of a Conserved H-Loop Subdomain in Nucleotide-Binding Domains

**Martin Mendoza, Pediatric Oncology Branch**

Defining the Ezrin and Chloride Intracellular Channel 4 Interaction in Metastasis

**Jill Paterson, Laboratory of Cell Biology**

Distinct Molecular Weight Forms of ABCB6 Localize to Specific Cellular Membranes

**Evi Soutglou, Laboratory of Receptor Biology and Gene Expression**

Positional Stability of Single Double-Strand Breaks in Living Mammalian Cells

**Xiaohong Wang, HIV and AIDS Malignancy Branch**

MicroRNAs in Cervical Cancer and Cervical Cancer-Derived Cell Lines and Their Possible Roles in Regulating HPV Gene Expression

### **4. Signal Transduction and Gene Transcription and Genomics, Proteomics, and Bioinformatics Combined (Conference Room 3)**

*Moderators: Stephen Maher, Ph.D., and Swati Choksi, Ph.D.*

**Yolanda Dale, Laboratory of Metabolism**

Calpain Mediates the Dioxin-Induced Activation and Down-Regulation of the Aryl Hydrocarbon Receptor

**Rebecca Ohman, Laboratory of Cancer Biology and Genetics**

PKC $\alpha$  Mediates the Proinflammatory Response of Keratinocytes to TNF $\alpha$

**Jui Pandhare, Laboratory of Comparative Carcinogenesis**

The Importance of Proline Metabolism Under Conditions of Nutrient Stress

**Vladimir Valera, Laboratory of Pathology**

Protein Expression Profiling and Its Correlation with the Malignant Phenotype in Inherited and Sporadic Renal Cell Carcinomas

**Francesca Scrimieri, Genetics Branch**

Genomic and Expression Profiling in Osteosarcoma

- 12:00 p.m. **Mentored and General Lunch** (*Grand Ballroom – First Floor*)
- 1:15 p.m. **Keynote Speaker III: “Molecular Crosstalks Between Tumor and Surrounding Cells Mark Cancer Progression”** (*Crystal Ballroom I*)  
*Stuart H. Yuspa, M.D., Laboratory of Cancer Biology and Genetics, CCR, NCI*  
*Moderators: M. Margaret Pratt, Ph.D., and Kwang Suh, Ph.D.*
- 2:30 p.m. **Break**
- 2:45 p.m. **Concurrent Workshops II**
- 1. Insights into Publishing in Top Journals** (*Crystal Ballroom I*)
- “Behind-the-Scenes Look at the Editorial Process at *Molecular Cell*”**  
*Feng Chen, Ph.D., Molecular Cell Magazine*
- “Publishing in *Science Magazine*”**  
*Laura Zahn, Ph.D., Science Magazine*  
*Moderators: Arti Santhanam, Ph.D., and Swati Choksi, Ph.D.*
- 2. Interview Techniques and Resume Critique** (*Conference Rooms 4-6*)
- “Sharpening Your Job Interview Skills”**  
*Barrett Whitener, M.A., Premier Public Speaking, Inc.*
- “Preparing a Marketing CV/Resume to Land Interviews”**  
*Stephen R. Gallison, Professional Outplacement Assistance Center of Maryland*  
*Moderators: Stephen Maher, Ph.D., and Haiqing Li, M.D., Ph.D.*
- 4:00 p.m. **Professional Resume Critique** (*Conference Rooms 4-6 by appointment*)  
*Stephen R. Gallison, Professional Outplacement Assistance Center of Maryland*
- 4:00 p.m. **Poster Session II** (*Crystal Ballroom II*)  
**Molecular and Cell Biology II**  
**Immunology and Genetics**  
**Clinical and Translational Research**  
**Cancer Research Technology**
- 5:45 p.m. **General and Mentored Dinner** (*Grand Ballroom – First Floor*)
- 6:45 p.m. **Career Fair** (*Conference Rooms 1-3*)  
**Mentored Lunch Sign-up** (*Registration Desk*)
- 9:00 p.m. **Adjourn**

**Thursday, March 1, 2007**

- 7:00 a.m. **Continental Breakfast** (*Crystal Ballroom Foyer*)  
**Registration Open**
- 8:00 a.m. **Keynote Speaker IV: “From Immune Deficiency to Immune Therapy”** (*Crystal Ballroom I*)  
*Steven M. Holland, M.D., Laboratory of Clinical Infectious Diseases, NIAID*  
*Moderators: Michael Rosu-Myles, Ph.D., and Véronique Pascal, Pharm.D., Ph.D.*

9:00 a.m. **Break**

9:15 a.m. **Concurrent Oral Presentations II**

**5. Molecular and Cellular Biology II** (*Crystal Ballroom I*)

*Moderators: Jennifer Shen, Ph.D., and Gonzalo de la Rosa, Ph.D.*

**Nabila Rasool**, *Laboratory of Pathology*

Secretory Leukocyte Protease Inhibitor (SLPI) Contributes to Proliferation and Tumorigenicity of Ovarian Cancer Cells *In Vivo*, Independent of Its Protease-Inhibitory Function

**Chung-Pu Wu**, *Laboratory of Cell Biology*

The P-Glycoprotein (ABCB1)-Specific Cytotoxic Thiosemicarbazone, NSC73306, Is a Potent Modulator of the Multidrug Resistance-Linked ABCG2 Transporter

**Ming Ji**, *Cancer and Developmental Biology Laboratory*

Inhibitor of DNA Binding 2 Regulates B Lymphopoiesis and Erythropoiesis via Interaction with Different Target Proteins

**Brian Booth**, *Mammary Biology and Tumorigenesis Laboratory*

Evidence for a Tumorigenic Multipotent Cell in ErbB2 Mammary Carcinomas

**Anjali Joshi**, *HIV Drug Resistance Program*

Modulation of HIV Production by the Golgi-Localized Gamma Ear-Containing Arf-Binding (GGA) Proteins

**6. Immunology and Genetics** (*Conference Rooms 4-6*)

*Moderators: Martin Guimond, Ph.D., and Swati Choksi, Ph.D.*

**Hongchuan Li**, *Laboratory of Experimental Immunology*

Genetic Control of Variegated KIR Gene Expression: Polymorphisms of the Bidirectional KIR3DL1 Promoter Are Associated with Distinct Frequencies of Gene Expression

**Anat Ohali**, *Vaccine Branch*

Anti-CD40-Mediated Expansion of High-Avidity Antigen-Specific CD8 Memory Cells Is IL-15 Dependent

**Poonam Tewary**, *Laboratory of Molecular Immunoregulation*

High-Mobility Group Box-1 (HMGB1) Protein Induces the Migration and Activation of Human Dendritic Cells and Acts as an Alarmin

**Changqing Yuan**, *Laboratory of Cell and Developmental Signaling*

The Functions of *Bwa* Gene in *Drosophila*

**Elena Ambrosino**, *Vaccine Branch*

Counter-Regulation of Type I and Type II NKT Cells in Tumor Immunity

**7. Clinical and Translational Research and Cancer Research Technology Combined**

(*Conference Room 1*)

*Moderators: Haiqing Li, M.D., Ph.D., and Heidi Erickson, Ph.D.*

**Laura Johnson**, *Surgery Branch*

Gene Transfer of Tumor Reactive T-Cell Receptors Confers both High Avidity and Tumor Reactivity to Non-Reactive PBMC and TIL

**Gabrela Kramer-Marek**, *Radiation Oncology Branch Branch*  
Molecular Probe for *In Vivo* Monitoring of HER2 Expression by PET

**Anil Shanker**, *Laboratory of Experimental Immunology*  
Therapeutic Benefit of Combining Proteasome Inhibition with TRAIL Receptor Agonist Antibody to Promote Tumor Cell Apoptosis

**Jason Cheng**, *Radiation Oncology Branch*  
Monte Carlo Dosimetry Study for 6 MV Photon Beam Using Reduce Phase Space Method

**Scott Martin**, *Genetics Branch*  
Applications of RNAi Screens in the Study of Cancer-Associated Processes

10:45 a.m. **Break**

11:15 a.m. **Concurrent Workshops III**

**1. Science Communication (Crystal Ballroom I)**

**“Speaking about Science”**  
**Barrett Whitener, M.A.**, *Premier Public Speaking, Inc.*

**“Writing about Science”**  
**Maggie Meitzler**, *TechBooks Professional Publishing Group*  
*Moderators: Gillian Whittaker, Ph.D., and Girish Patel, M.B.B.S., M.R.C.P., M.D.*

**2. Core Facilities and Support Services at NCI (Conference Rooms 4-6)**

**“Opening Remarks from the Director”**  
**Timothy Harris, Ph.D.**, *Director, Research Technology Program, SAIC-Frederick, Inc.*

- **“Science and Technology Partnerships”**  
**David Goldstein, Ph.D.**, *Office of Science and Technology Partnerships, OD, CCR, NCI*
- **“Learning to Express and Purify Mammalian Proteins”**  
**James Hartley, Ph.D.**, *Protein Expression Laboratory, Research Technology Program, SAIC-Frederick, Inc.*
- **“An Insider’s Look at the Protein Chemistry: Molecular Interactions R Us”**  
**Robert Fisher, Ph.D.**, *Protein Chemistry Laboratory, Research Technology Program, SAIC-Frederick, Inc.*
- **“Targeted and Discovery-Driven Proteomics within the Laboratory of Proteomics and Analytical Technologies”**  
**Timothy Veenstra, Ph.D.**, *Laboratory of Proteomics and Analytical Technologies, Research Technology Program, SAIC-Frederick, Inc.*
- **“Development of Novel Microarray Platforms”**  
**David Munroe, Ph.D.**, *Laboratory of Molecular Technology, Research Technology Program, SAIC-Frederick, Inc.*  
*Moderators: Kwang Suh, Ph.D., and Jordan Irvin, Ph.D.*

12:30 p.m. **Mentored and General Lunch with Travel Awards (Grand Ballroom – First Floor)**

1:45 p.m. **Questionnaire and Closing Comments from the Retreat Committee**

2:00 p.m. **Adjourn**

**2007 CCR Fellows and Young Investigators Retreat  
Travel Award Winners**

**Congratulations!**

**Eight \$1,000 Travel Awards**

Sponsored by the CCR Office of the Director

**Outstanding Oral Presentations**

Anna Maria Calcagno  
Chung-Pu Wu  
Scott Martin  
Jason Cheng

**Outstanding Poster Presentations**

Christophe Cataisson  
Timothy Iro  
Daniel Powell  
Matthew D. Hall